

Atty Dkt. No.: 6510-142 CON
USSN: 08/976,560

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the test individual of a polymorphism which is present on a disease chromosome indicates that the test individual has an increased susceptibility to develop BP [wherein said DNA polymorphism is associated with a form of bipolar mood disorder].

8. (Amended) The method of claim 1, wherein said analyzing further comprises

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a) analyzing DNA samples obtained from family members for the presence of said DNA

polymorphism; and

b) correlating the presence or absence of the DNA polymorphism with a phenotypic diagnosis of bipolar mood disorder for said individual or for said family members, wherein a correlation is indicative of an increased susceptibility to develop BP [a bipolar mood disorder susceptibility polymorphism].

10. (Amended) A method of genetically diagnosing bipolar mood disorder in an individual comprising:

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analyzing a DNA sample obtained from [an] a test individual for the presence of a DNA polymorphism associated with bipolar mood disorder, wherein said DNA polymorphism is located within a 500 kb region of chromosome 18, wherein said region is located between and inclusive of [D18S1140 and W3422] SAVA5 and ga203, wherein the presence in the test individual of a polymorphism which is present on a disease chromosome indicates that [the presence of said DNA polymorphism is an indication that] the individual has bipolar mood disorder.

11. (Amended) A method of confirming a phenotypic diagnosis of bipolar mood disorder in an individual comprising:

analyzing a DNA sample obtained from [an] a test individual phenotypically diagnosed as having bipolar mood disorder for the presence of a DNA polymorphism associated with bipolar mood disorder, wherein said DNA polymorphism is located within a 500 kb region of chromosome 18, wherein said region is located between and inclusive of SAVA5 and ga203, wherein the presence in the

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D³ test individual of the polymorphism which is present on a disease chromosome [the presence of said DNA polymorphism] confirms a phenotypic diagnosis of bipolar mood disorder.

Please cancel claims 17-24 without prejudice to renewal.

Please enter new claims 25-27, as shown below.

--25. (New) The method of claim 1, wherein the polymorphism is a polymorphic microsatellite marker.

D⁴ 26. (New) The method of claim 25, wherein the polymorphism is a single nucleotide polymorphism.

27. (New) A method of detecting the presence of a bipolar mood disorder susceptibility polymorphism in an individual comprising:

analyzing a sample of DNA from said individual for the presence of a DNA polymorphism on the short arm of chromosome 18 between SAVAS and ga203; and
determining the frequency of the polymorphism on disease chromosomes and non-disease chromosomes, wherein an overrepresentation of the polymorphism on disease chromosomes indicates that the DNA polymorphism is associated with a form of bipolar mood disorder. --

II. REMARKS

Formal matters

Claims 1-12; and 25-27 are pending in this application after entry of the amendments set forth above.

Claims 1-12 and 17-24 were examined and were rejected.